Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of the claims in the application:

Listing of Claims:

1. (Currently Amended) A method, comprising:

scanning an address space to locate a structure; determining the a starting address location of the structure; and

accessing a register located within the structure by adding a predetermined offset

to the starting address location of the structure.

2. (Currently Amended) The method of claim 1, wherein scanning-an the address space includes scanning a PCI address space.

3. (Currently Amended) The method of claim 1, wherein scanning-an the address space

includes scanning a PCI Express address space.

4. (Currently Amended) The method of claim 1, wherein scanning an the address space

to locate-a the structure includes scanning an address space to locate a structure that is

located within a configuration space of a device.

5. (Currently Amended) The method of claim 2, wherein scanning-an the address space

to locate a the structure includes reading an 8-bit PCI capabilities pointer located inside a

target device.

6. (Currently Amended) The method of claim 5, wherein scanning-an the address space

to locate-a the structure further includes determining whether the 8-bit PCI capabilities

pointer is a valid capabilities pointer.

- 7. (Currently Amended) The method of claim 6, wherein scanning—an the address space to locate—a the structure further includes following the 8-bit PCI capabilities pointer to read an 8-bit capabilities identification value.
- 8. (Currently Amended) The method of claim 7, wherein scanning—an the address space to locate—a the structure further includes determining whether the read 8-bit capabilities identification value matches a predetermined capabilities identification value.
- 9. (Currently Amended) The method of claim 8, wherein scanning-an the address space to locate-a the structure further includes reading a next 8-bit capabilities pointer if the read 8-bit capabilities identification value does not match the predetermined capabilities identification value.
- 10. (Currently Amended) The method of claim 9, wherein determining the starting address location of the structure includes returning a pointer to the structure if the read <u>8-bit</u> capabilities identification value matches the predetermined capabilities identification value.
- 11. (Currently Amended) The method of claim 3, wherein scanning—an the address space to locate—a the structure includes reading a 12-bit PCI Express capabilities pointer located inside a target device.
- 12. (Currently Amended) The method of claim 11, wherein scanning—an the address space to locate—a the structure further includes determining whether the 12-bit PCI Express capabilities pointer is a valid capabilities pointer.
- 13. (Currently Amended) The method of claim 12, wherein scanning-an the address space to locate-a the structure further includes following the 12-bit PCI Express capabilities pointer to read a 16-bit capabilities identification value.

- 14. (Currently Amended) The method of claim 13, wherein scanning-an the address space to locate-a the structure further includes determining whether the read 16-bit capabilities identification value matches a predetermined capabilities identification value.
- 15. (Currently Amended) The method of claim 14, wherein scanning—an_the address space to locate—an_the structure further includes reading a next 12-bit capabilities pointer if the read 16-bit capabilities identification value does not match the predetermined capabilities identification value.
- 16. (Currently Amended) The method of claim 15, wherein determining the starting address location of the structure includes returning a pointer to the structure if the read 16-bit capabilities identification value matches the predetermined capabilities identification value.
- 17. (Currently Amended) A machine-readable medium having stored thereon instructions which, when executed by a computer system, causes the computer system to perform a method comprising:

scanning an address space to locate a structure;

determining the a starting address location of the structure; and

accessing a register located within the structure by adding a predetermined offset
to the starting address location of the structure.

- 18. (Currently Amended) The machine-readable medium of claim 17, wherein scanning an the address space includes scanning a PCI address space.
- 19. (Currently Amended) The machine-readable medium of claim 17, wherein scanning and the address space includes scanning a PCI Express address space.
- 20. (Currently Amended) The machine-readable medium of claim 17, wherein scanning an the address space to locate a the structure includes scanning an address space to locate a structure that is located within a configuration space of a device.

- 21. (Currently Amended) The machine-readable medium of claim 18, wherein scanning an the address space to locate-a the structure includes reading an 8-bit PCI capabilities pointer located inside a target device.
- 22. (Currently Amended) The machine-readable medium of claim 21, wherein scanning an the address space to locate-a the structure further includes determining whether the 8-bit PCI capabilities pointer is a valid capabilities pointer.
- 23. (Currently Amended) The machine-readable medium of claim 22, wherein scanning an the address space to locate-a the structure further includes following the 8-bit PCI capabilities pointer to read an 8-bit capabilities identification value.
- 24. (Currently Amended) The machine-readable medium of claim 23, wherein scanning an the address space to locate-an the structure further includes determining whether the read 8-bit capabilities identification value matches a predetermined capabilities identification value.
- 25. (Currently Amended) The machine-readable medium of claim 24, wherein scanning an the address space to locate-a the structure further includes reading a next 8-bit capabilities pointer if the read 8-bit capabilities identification value does not match the predetermined capabilities identification value.
- 26. (Currently Amended) The machine-readable medium of claim 25, wherein determining the starting address location of the structure includes returning a pointer to the structure if the read <u>8-bit</u> capabilities identification value matches the predetermined capabilities identification value.
- 27. (Currently Amended) The machine-readable medium of claim 19, wherein scanning an the address space to locate-a the structure includes reading a 12-bit PCI Express capabilities pointer located inside a target device.

Application No.: 10/750,057 -5- Attorney Docket No.: 42P17515

- 28. (Currently Amended) The machine-readable medium of claim 27, wherein scanning an the address space to locate-an the structure further includes determining whether the 12-bit PCI Express capabilities pointer is a valid capabilities pointer.
- 29. (Currently Amended) The machine-readable medium of claim 28, wherein scanning an the address space to locate-an the structure further includes following the 12-bit PCI Express capabilities pointer to read a 16-bit capabilities identification value.
- 30. (Currently Amended) The machine-readable medium of claim 29, wherein scanning an the address space to locate-an the structure further includes determining whether the read 16-bit capabilities identification value matches a predetermined capabilities identification value.
- 31. (Currently Amended) The machine-readable medium of claim 30, wherein scanning an the address space to locate-a the structure further includes reading a next 12-bit capabilities pointer if the read 16-bit capabilities identification value does not match the predetermined capabilities identification value.
- 32. (Currently Amended) The machine-readable medium of claim 31, wherein determining the starting address location of the structure includes returning a pointer to the structure if the read <u>16-bit</u> capabilities identification value matches the predetermined capabilities identification value.